H6810, H6811, H6812

H681x-5A SERIES

5 Amp Split-Core Current Transformers



Installer's Specifications

Output at Rated Current	5 Amps AC
Accuracy	see table (page 2)
Leads	18 AWG, UL 1015 twisted pair, 6' (1.8 m) standard length
Operating Temperature Range	-15° to 60°C (5° to 140°F)
Storage Temperature Range	-40° to 70°C (-40° to 158°)
Humidity Range	0-95% noncondensing
Max. Voltage L-N Sensed Conductor	600 VAC (basic insulation rating)
Frequency Range	50/60 Hz
Altitude of Operation	3km max.
Installation Category	Cat II or Cat III

⚠ DANGER ⚠

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Follow safe electrical work practices. See NFPA 70E in the USA, or applicable local codes.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Read, understand and follow the instructions before installing this product.
- Turn off all power supplying equipment before working on or inside the equipment.
- Use a properly rated voltage sensing device to confirm power is off. DO NOT DEPEND ON THIS PRODUCT FOR VOLTAGE INDICATION
- SECONDARY LEADS/TERMINALS OF CURRENT OUTPUT (e.g. 5A) CTs MUST BE SHORTED, OR CONNECTED TO THE BURDEN AT ALL TIMES.

Failure to follow these instructions will result in death or serious injury.

NOTICE

- This product is not intended for life or safety applications.
- Do not install this product in hazardous or classified locations.
- The installer is responsible for conformance to all applicable codes.
- Mount this product inside a suitable fire and electrical enclosure.

INSTALLATION

1. Disconnect and lock out power to the primary circuit before installing these current transducers (CTs).
2. Connect the secondary leads to the burden or test switching/shorting bar. The white wire is the X1 lead.
3. Depress the tabs on one end of the current transformer to open it and slip it over the primary leads. Note labeling on product indicating "source side."
4. Check the core ends on both sections of the CT to assure there is no rust or debris in the closure areas.
5. Close and latch the CT, and mount it securely.
6. Reconnect power to the panel.

Optional mounting kit available for the H6810, H6811, and H6812. See Veris AH06.

PRODUCT IDENTIFICATION

Model/Amps *Output Type*

H681 ☐ - 5A

= 5 Amp

Small:
- 0-200 = 200A
- 0-300 = 300A

Medium:
- 1-400 = 400A
- 1-600 = 600A
- 1-800 = 800A

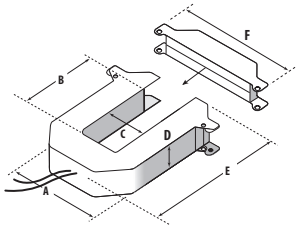
Large:
- 2-800 = 800A
- 2-1000 = 1000A
- 2-1200 = 1200A
- 2-1600 = 1600A
- 2-2000 = 2000A
- 2-2400 = 2400A

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OPERATION

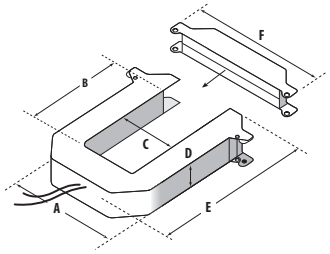
The H681x-xxx series of 5 Amp split-core current transformers provide secondary amperage proportional to the primary (sensed) current. For use with power meters, data loggers, chart recorders, and other instruments, the H681x Series 5 Amp CTs provide a cost-effective means to transform electrical service amperages to a 0 to 5 Amp level compatible with monitoring equipment.

DIMENSIONS



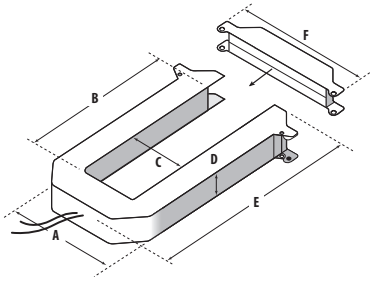
H6810
SMALL (SIZE 2)
200/300 Amp

A =	3.8"	(96 mm)
B =	1.2"	(30 mm)
C =	1.3"	(31 mm)
D =	1.2"	(30 mm)
E =	4.0"	(100 mm)
F =	4.8"	(121 mm)



H6811
MEDIUM (SIZE 3)
400/600/800 Amp

A =	4.9"	(125 mm)
B =	2.9"	(73 mm)
C =	2.5"	(62 mm)
D =	1.2"	(30 mm)
E =	5.2"	(132 mm)
F =	6.0"	(151 mm)



H6812
LARGE (SIZE 4)
800/1600/2400 Amp

A =	4.9"	(125 mm)
B =	5.5"	(139 mm)
C =	2.5"	(62 mm)
D =	1.2"	(30 mm)
E =	7.9"	(201 mm)
F =	6.0"	(151 mm)

RATINGS

Model	Sensing Current (A)	Frequency (Hz)	Output (A)	Weight (kg)
H6810	0 to 300	50/60	0 to 5	0.340
H6811	0 to 800	50/60	0 to 5	0.580
H6812	0 to 2400	50/60	0 to 5	0.870

These products provide basic insulation to 600 VAC between the sensed conductor and the output leads. For reinforced applications, the sensed conductor must be provided with appropriate insulation. Reinforced insulation is provided for applications to 300 VAC between the sensed conductor and the output leads.

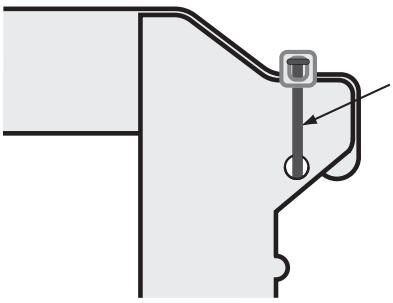
ACCURACY

Model #	Accuracy from 10% to 100% of CT Rating	Burden Capacity (VA)
H6810-200A-5A	1%	2.5
H6810-300A-5A	1%	2.5
H6811-400A-5A	1%	5.0
H6811-600A-5A	1%	5.0
H6811-800A-5A	1%	12.5
H6812-800A-5A	1%	5.0
H6812-1200A-5A	1%	22.5
H6812-1600A-5A	1%	22.5
H6812-2400-5A	1%	22.5

NOTES

Accuracy is specified with the primary conductor(s) centered in the CT window.

In any application where fault currents can exceed 20 times rated current of CT, use wire ties or similar fasteners to secure the I-bar to the CT housing (see below). Secure both sides of the I-bar.



Secure I-bar with a wire tie in applications where a fault current could exceed 20x rated current.

Max. voltage without additional insulation: 600VAC for the H6810, H6811, and H6812

Do not apply current transformers to circuits having a phase-to-neutral voltage greater than the stated maximum voltage unless adequate additional insulation is applied between the primary conductor and the current transformers. Veris assumes no responsibility for damage of equipment or personal injury caused by transformers operated on circuits above their published ratings.

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